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DOCKET NO.: M0925.70143US00

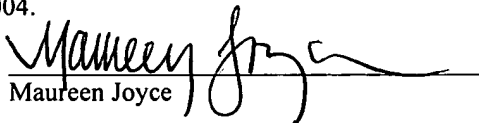
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Swager et al.
Serial No.: 10/823,093
Confirmation No.: 3154
Filed: April 12, 2004
For: EMISSIVE SENSORS AND DEVICES INCORPORATING
THESE SENSORS

Examiner: Not yet assigned
Art Unit: 1743

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 23 day of November, 2004.


Maureen Joyce

MAIL STOP AMENDMENT

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

- Information Disclosure Statement
- PTO Form 1449 with cited references
- Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 646-8000, Boston, Massachusetts.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,

By: 

Timothy J. Oyer, Ph.D., Reg. No. 36,628
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Docket No.: M0925.70143US00
Date: November 23, 2004
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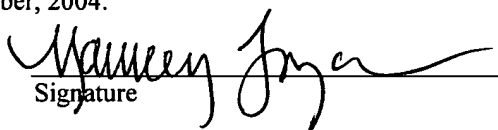
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Signature

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 C.F.R. §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicants request consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The Applicants hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicants would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>
10/324,064	December 18, 2002	Swager et al.

PART III: Explanation of Non-English Language References and Remarks Concerning Other Information Cited

The following is a concise explanation of the relevance of each non-English language reference listed on the attached form PTO-1449 (modified):

DE 19744792 is generally related to triptycene derivatives and their use for opto-electronic applications, in particular as electrical luminescence materials. Applicants do not have possession of a translation of this reference.

DE 19806037 is generally related to triptycene polymers and copolymers. Applicants do not have possession of a translation of this reference.

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

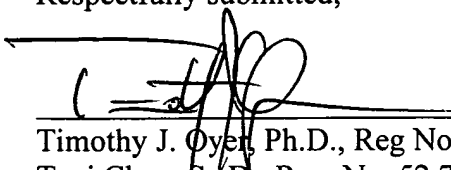
By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicants, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,

By:



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Date: November 23, 2004
x11/25/04x



FORM PTO-1449/A and B (Modified)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/823,093

ATTY. DOCKET NO.: M0925.70143US00

FILING DATE: April 12, 2004

CONFIRMATION NO.: 3154

APPLICANT: Swager et al.

GROUP ART UNIT: 1743

EXAMINER: Not Yet Assigned

Sheet 1 of 6

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A1	* 4,356,429		Tang	10-26-1982
	A2	* 4,687,732		Ward et al.	08-18-1987
	A3	* 4,927,768		Coughlin et al.	05-22-1990
	A4	* 4,946,890		Meador	08-07-1990
	A5	* 4,992,302		Lindmayer	02-12-1991
	A6	* 5,155,149		Atwater et al.	10-13-1992
	A7	* 5,194,393		Hugl et al.	03-16-1993
	A8	* 5,236,808		Smothers	08-17-1993
	A9	* 5,244,813		Walt et al.	09-14-1993
	A10	* 5,254,633		Han et al.	10-19-1993
	A11	* 5,364,797		Olson et al.	11-15-1994
	A12	* 5,414,069		Cumming et al.	05-09-1995
	A13	* 5,451,683		Barrett et al.	09-19-1995
	A14	* 5,511,547		Markle et al.	04-30-1996
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	A17	* 5,540,999		Yamamoto et al.	07-30-1996
	A18	* 5,546,889		Wakita et al.	08-20-1996
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	A20	* 5,556,524		Albers	09-17-1996
	A21	* 5,563,056		Swan et al.	10-08-1996
	A22	* 5,565,322		Heller	10-15-1996
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	A29	* 5,700,696		Chandross et al.	12-23-1997
	A30	* 5,705,348		Meade et al.	01-06-1998
	A31	* 5,709,994		Pease et al.	01-20-1998
	A32	* 5,710,197		Fischer et al.	01-20-1998
	A33	* 5,723,218		Haugland et al.	03-03-1998
	A34	* 5,869,592		Gagné et al.	02-09-1999
	A35	* 5,925,517		Tyagi et al.	07-20-1999
	A36	* 6,020,426		Yamaguchi et al.	02-01-2000

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/823,093		ATTY. DOCKET NO.: M0925.70143US00		
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		Number	Kind Code		
	A37	* 6,259,277	B1	Tour et al.	07-10-2001
	A38	* 6,589,731		Chen et al.	07-08-2003
	A39	* 6,783,814	B2	Swager et al	08-31-2004
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	A41	* 2002/0150697	A1	Swager et al.	10-17-2002
	A42	* 2003/0134959	A1	Hancock et al.	07-17-2003
	A43	* 2003/0178607	A1	Swager et al.	09-25-2003
	A44	* 2004/0043251	A1	Epstein et al.	03-04-2004
	A45	* 2004/0121337	A1	Deans et al.	06-24-2004

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Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
	B1	WO	* 89/00593		Yamamoto Ryuichi	11-22-1994	
	B2	WO	* 95/16681		Memtec Limited	01-26-1989	
	B3	WO	* 99/57222		Trustees of the Univ. of Pennsylvania	06-22-1995	
	B4	WO	* 01/57140		Massachusetts Institute of Technology	11-11-1999	
	B5	WO	* 02/16463		Massachusetts Institute of Technology	08-09-2001	
	B6	WO	* 03/048226	A2	Nomadics, Inc.	06-12-2003	
	B7	WO	* 04/057014	A2	Nomadics, Inc.	07-08-2004	
	B8	EP	* 0 442 123	A1	Neste Oy	08-21-1991	
	B9	EP	* 1 011 154	A1	Sony International (Europe) GmbH	06-21-2000	
	B10	DE	* 197 44 792	A1	Hoechst AG	04-15-1999	
	B11	DE	* 198 06 037	A1	Aventis Research & Technology GmbH	09-19-1999	
	B12	JP	* 06-322078		Yamamoto Ryuichi	11-22-1994	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
	C1	* BRABEC, Christoph, et al. "Plastic Solar Cells," <i>Adv. Funct. Mater.</i> , 2001, Vol. 11, No.1, pp. 15-26		
	C2	* CHEN, LIAOHAI, ET AL., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation," <i>Journal of the American Chemical Society</i> , 2000, Vol. 122 No. 38, pp. 9302-9303		
	C3	* CHEN, Liaohai, et al., "Highly Sensitive Biological and Chemical Sensors Based on Reversible Fluorescence Quenching in a Conjugated Polymer," <i>Proceedings of the National Academy of Sciences of the United States of America</i> , October 26, 1999, Vol. 96, No. 22, pp. 12287-12292		
	C4	* COTTS, Patricia M., et al., "Equilibrium Flexibility of a Rigid Linear Conjugated Polymer," <i>Macromolecules</i> , 1996, Vol. 29, pp. 7323-7328		

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	C5	* DAGANI, Ron, "A Better Sensor for Nerve Gas," C&EN, March 10, 2003, p. 12	
	C6	* DEANS, Robert, et al., "A Poly(<i>p</i> -phenyleneethynylene) with a Highly Emissive Aggregated Phase," <i>J. Am. Chem. Soc.</i> , 2000, Vol. 122, pp. 8565-8566	
	C7	* FIESEL, Rainer, et al., "On the Solid State Aggregation of Chiral Substituted Poly(<i>para</i> -phenylene)s (PPPs)," <i>Synthetic Metals</i> , 1999, Vol. 102, pp. 1457-1458	
	C8	* FIESEL, Rainer, et al., "Aggregation-induced CD effects in chiral poly(2,5-dialkoxy-1,4-phenylene)s," <i>Acta Polym.</i> , 1998, Vol. 49, pp. 445-449	
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	C10	* FU, Dian-Kui, et al., "Alternating Poly(PyridylVinylenePhenyleneVinylene)s: Synthesis and Solid State Organizations," <i>Tetrahedron</i> , 1997, Vol. 53, No. 45, pp. 15487-15494	
	C11	* GAYLORD, Brent S., et al., "DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes," <i>PNAS</i> , August 20, 2002, Vol. 99, No. 17, pp. 10954-10957	
	C12	* GAYLORD, Brent S., et al., "Water-Soluble Conjugated Oligomers: Effect of Chain Length and Aggregation on Photoluminescence-Quenching Efficiencies," <i>J. Am. Chem. Soc.</i> , June 8, 2001, Vol. 123, No. 26, pp. 6417-6418	
	C13	* GOLDFINGER, M. et al., "Fused Polycyclic Aromatics via Electrophile-Induced Cyclization Reactions: Application to the Synthesis of Graphite Ribbons", <i>Journal of the American Chemical Society</i> , 116, (1994), pp. 7895-7896	
	C14	* HALKYARD, Carrie E., et al., "Evidence of Aggregate Formation for 2,5-Dialkylpoly (<i>p</i> -phenyleneethynylenes) in Solution and Thin Films," <i>Macromolecules</i> , November 25, 1998, Vol. 31, No. 25, pp. 8655-8659	
	C15	* HARRISON, Benjamin S., et al., "Amplified Fluorescence Quenching in a Poly(<i>p</i> -phenylene)-Based Cationic Polyelectrolyte," <i>J. Am. Chem. Soc.</i> , August 16, 2001, Vol. 122, No. 35, pp. 8561-8562	
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	C17	* HÖGER, Sigurd, et al., "Synthesis, Aggregation, and Adsorption Phenomena of Shape-Persistent Macrocycles with Extraannular Polyalkyl Substituents," <i>J. Am. Chem. Soc.</i> , May 22, 2001, Vol. 123, No. 24, pp. 5651-5659	
	C18	* JONES, Robert M., et al., "Superquenching and Its Application in J-Aggregated Cyanine Polymers," <i>Langmuir</i> , April 4, 2001, Vol. 17, No. 9, pp. 2568-2571	
	C19	* KIM, Jinsang, et al., "Nanoscale Fibrils and Grids: Aggregated Structures from Rigid-Rod Conjugated Polymers," <i>Macromolecules</i> , Vol. 32, No. 5, pp. 1500-1507, 1999	
	C20	* KIM, Jinsang, et al., "Ion-Specific Aggregation in Conjugated Polymers: Highly Sensitive and Selective Fluorescent Ion Chemosensors," <i>Angew Chem. Int. Ed.</i> , 2000, Vol. 39, No. 21, pp. 3868-3872	
	C21	* KIM, Jinsang, et al., "Control of conformational and interpolymer effects in conjugated polymers," <i>Nature</i> , June 28, 2001, Vol. 411, pp. 1030-1034	
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	C24	* KIM, Yong Hee, et al., "Ultrafast Energy-Transfer Dynamics between Block Copolymer and π -Conjugated Polymer Chains in Blended Polymeric Systems," <i>Chemistry of Materials</i> , Vol. 13(8), pp. 266	
	C25	* KÖHLER, Bernhard, et al., "Novel Chiral Macrocycles Containing Two Electronically Interacting Arylene Chromophores," <i>Chem. Eur. J.</i> , 2001, Vol. 7, No. 14, pp. 3000-3004	
	C26	* KRAFT, Arno, et al., "Electroluminescent Conjugated Polymers – Seeing Polymers in a New Light," <i>Angew. Chem. Int. Ed.</i> 1998, 37, 402-428	
	C27	* KUSHON, Stuart A., et al., "Detection of DNA Hybridization via Fluorescent Polymer Superquenching," <i>Langmuir</i> , The ACS Journal of Surfaces and Colloids, October 1, 2002, Vol. 18, No. 20, pp. 7245-7249	
	C28	* LANGVELD, B.M.W., et al., "Circular Dichroism and Circular Polarization of Photoluminescence of Highly Ordered Poly{3,4-di[(S)-2-methylbutoxy]thiophene}," <i>J. Am. Chem. Soc.</i> , 1996, Vol. 118, No. 20, pp. 4908-4909	
	C29	* LEVITSKY, Igor A., et al., "Energy Migration in a Poly(phenylene ethynylene): Determination of Interpolymer Transport in Anisotropic Langmuir-Blodgett Films," <i>J. Am. Chem. Soc.</i> , 1999, Vol. 121, No. 7, pp. 1466-1472	
	C30	* LEVITSKY, Igor A., et al., "Mass and Energy Transport in Conjugated Polymer Langmuir-Blodgett Films; Conductivity, Fluorescence, and UV-Vis Studies," <i>Macromolecules</i> , March 27, 2001, Vol. 34, No. 7, pp. 2315-2319	
	C31	* LI, Mei, et al., "Novel Surfactant-Free Stable Colloidal Nanoparticles Made of Randomly Carboxylated Polystyrene Ionomers," <i>Macromolecules</i> , 1997, Vol. 30, No. 7, pp. 2201-2203	
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	C34	* MCQUADE, D. Tyler, et al., "Conjugated Polymer-Based Chemical Sensors," <i>Chem. Rev.</i> , 2000, Vol. 100, No. 7, pp. 2537-2574	
	C35	* MIAO, Yi-Jun, et al., "Fluorescence Sensory Polymers Containing Rigid Non-planar Aromatic Scaffolds," Proceedings of the 1997 Boston meeting, Vol. 39, No. 2, pp. 1081-1082, August 23-27, 1998, Polym. Prepr. Div. Polym. Chem. Am. Chem. Soc.; Polymer Preprints, Division of Polymer Chemistry, American Chemical Society, Aug. 1998 ACS, Washington D.C.	
	C36	* MITSCHKE, Ullrich et al., "The electroluminescence of organic materials," <i>J. Mater. Chem.</i> , 2000, Vol. 10, pp. 1471-1507	
	C37	* MOON, Joong Ho, et al., "Capture and detection of a quencher labeled oligonucleotide by poly(phenylene ethynylene) particles," <i>Chem. Commun.</i> , January 2003, Vol. 1, pp. 104-105	
	C38	* NORVEZ, S., et al., "Epitaxygens: mesomorphic properties of triptycene derivatives," <i>Liquid Chemicals</i> , 1993, Vol. 14, No. 5, pp. 1389-1395	
	C39	* ODA, Masao, et al., "Circularly Polarized Electroluminescence from Liquid-Crystalline Chiral Polyfluorenes," <i>Advanced Materials</i> , 2000, Vol. 12, No. 5, pp. 362-365	
	C40	* ODA, Masao, et al., "Chiroptical properties of chiral-substituted polyfluorenes," <i>Synthetic Metals</i> , 2000, Vol. 111-112, pp. 575-577	
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	C42	* PEETERS, Emiel, et al., "Circularly Polarized Electroluminescence from a Polymer Light-Emitting Diode," <i>J. Am. Chem. Soc.</i> , 1997, Vol. 119, No. 41, pp. 9909-9910	
	C43	* PLACE, Ileana, et al., "Stabilization of the Aggregation of Cyanine Dyes at the Molecular and Nanoscopic Level," <i>Langmuir</i> , July 28, 2000, Vol. 16, No. 23, pp. 9042-9048	
	C44	* PSCHIRER, Neil G., et al., "Poly(fluorenyleneethynylene)s by Alkyne Metathesis: Optical Properties and Aggregation Behavior," <i>Macromolecules</i> , May 9, 2000, Vol. 33, No. 11, pp. 3961-3963	
	C45	* SNOW A.W., et al., "Synthesis and Evaluation of Hexafluorodimethylcarbinol Functionalized Polymers as Microsensor Coatings," <i>Journal of Applied Polymer Science</i> , 1991, Vol. 43, pp. 1659-1671	
	C46	* SWAGER, Timothy M., et al., "Fluorescence Studies of Poly(p-phenyleneethynylene)s: The Effect of Anthracene Substitution," <i>J. Phys. Chem.</i> , 1995, Vol. 99, No. 14, pp. 4886-4893	
	C47	* SWAGER, Timothy M., "The Molecular Wire Approach to Sensory Signal Amplification," <i>Acc. Chem. Res.</i> , 1998, Vol. 31, No. 5, pp. 201-207	
	C48	* TAN, Chunyan, et al., "Photophysics, aggregation and amplified quenching of a water-soluble poly(phenylene ethynylene)," <i>Chem. Commun.</i> , 2002, pp. 446-447	
	C49	* VAN HOUTEN, Kelly A., et al., "Rapid Luminescent Detection of Phosphate Esters in Solution and the Gas Phase Using (dppe)Pt{S2C2(2-pyridyl)(CH2CH2OH)}," <i>J. Am. Chem. Soc.</i> , 1998, Vol. 120, No. 47, pp. 12359-12360	
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OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
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EXAMINER:	DATE CONSIDERED:
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*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 10/324,064, filed December 18, 2002, or Serial No. 09/305,379, filed May 5, 1999 and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - The Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC 371 after June 30, 2003. See 37 CFR 1.491(b). For all patent applications filed on or before June 30, 2003, copies of cited U.S. patents and patent application publications are still required unless an eIDS is filed. Copies of all other patent(s), publication(s), or other information listed must still be provided, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]